

L5 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:300304 CAPLUS Full-text

DN 142:367688

TI Use of galanthamine and the derivatives thereof in the production of medicaments for the treatment of postoperative delirium

IN Bodenteich, Angelika; Frantsits, Werner J.; Pirich, Eberhard; Czollner, Laszlo

PA Sanochemia Pharmazeutika A.-G., Austria

SO PCT Int. Appl., 62 pp.

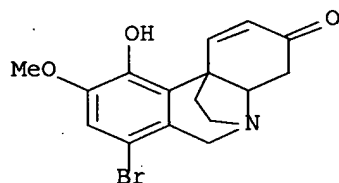
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 2

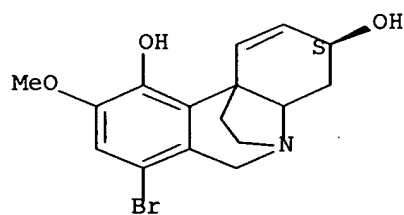
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005030332	A2	20050407	WO 2004-AT251	20040712
	WO 2005030332	A3	20050602		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2506282	AA	20050407	CA 2004-2506282	20040712
	NO 2005002177	A	20050624	NO 2005-2177	20050503
PRAI	AT 2003-1538	A	20030929		
	WO 2004-AT251	W	20040712		
OS	MARPAT 142:367688				
AB	The invention discloses the use of galanthamine and the cholinergically active derivs. thereof in the production of medicaments for preventive treatment of postoperative delirium and/or subsyndromal postoperative delirium. Galanthamine, the galanthamine derivative(4aS,6R,8aS)-6-hydroxy-3- methoxy-11-methyl-4a,5,9,10-tetrahydro-6H-benzofuro[3a,3,2-ef] [2]benzazepinium bromide, and analogous salts, hydrates or solvates are suited for use according to the invention.				
IT	198988-69-1 273749-93-2 273749-95-4				
	RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(galanthamine and galanthamine derivs. for treatment of postoperative delirium)				
RN	198988-69-1 CAPLUS				
CN	3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-methoxy- (9CI) (CA INDEX NAME)				



RN 273749-93-2 CAPLUS

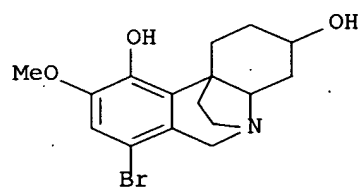
CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-4,4a-dihydro-9-methoxy-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



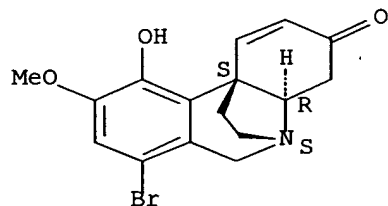
RN 273749-95-4 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-1,2,4,4a-tetrahydro-9-methoxy- (9CI) (CA INDEX NAME)



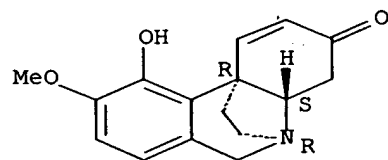
L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:61759 CAPLUS Full-text
 DN 138:369041
 TI Seco-isopowellaminone: a new heterocycle from nornarwedine
 AU Hirnschall, Manfred; Mereiter, Kurt; Froehlich, Johannes; Jordis, Ulrich
 CS Institute of Applied Synthetic Chemistry, Vienna, 1060, Austria
 SO Journal of Heterocyclic Chemistry (2002), 39(6), 1265-1270
 CODEN: JHTCAD; ISSN: 0022-152X
 PB HeteroCorporation
 DT Journal
 LA English
 OS CASREACT 138:369041
 AB It is known that nornarwedine-type mols. can be converted into crinine-type
 compds. by a reverse Michael- / Michael addition Narwedine and bromonarwedine
 yield, as confirmed by X-ray structure determination, the known seco-
 powellaminone as well as the novel seco-isopowellaminone.
 IT **406673-87-8P 522655-29-4P 522655-31-8P**
522655-35-2P 522655-39-6P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of seco-powellaminone as well as the novel seco-
 isopowellaminone from narwedine and bromonarwedine via a reverse
 Michael- / Michael addition)
 RN 406673-87-8 CAPLUS
 CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-
 methoxy-, (4aR,5S,10bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



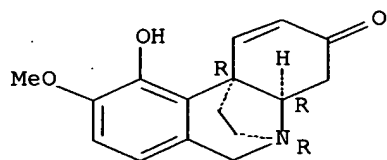
RN 522655-29-4 CAPLUS
 CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 4,4a-dihydro-10-hydroxy-9-methoxy-,
 (4aR,5S,10bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 522655-31-8 CAPLUS
 CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 4,4a-dihydro-10-hydroxy-9-methoxy-,
 (4aR,5R,10bR)-rel- (9CI) (CA INDEX NAME)

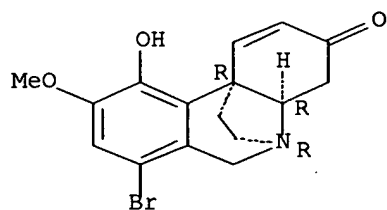
Relative stereochemistry.



RN 522655-35-2 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-methoxy-, (4aR,5R,10bR)-rel- (9CI) (CA INDEX NAME)

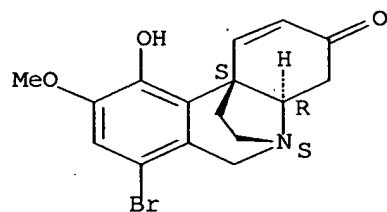
Relative stereochemistry.



RN 522655-39-6 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-methoxy-, hydrochloride, (4aR,5S,10bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

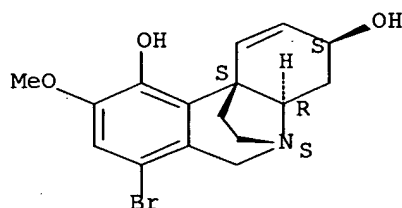


● HCl

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

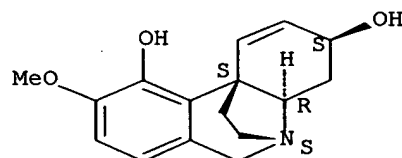
L5 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:33226 CAPLUS Full-text
 DN 136:279595
 TI Bidirectional conversion of galanthamine and crinine type heterocycles
 AU Treu, Matthias; Welzig, Stefan; Jordis, Ulrich
 CS Department of Organic Chemistry, Vienna University of Technology, Vienna, A-1060, Austria
 SO Heterocycles (2001), 55(12), 2397-2404
 CODEN: HTCYAM; ISSN: 0385-5414
 PB Japan Institute of Heterocyclic Chemistry
 DT Journal
 LA English
 OS CASREACT 136:279595
 AB The conversion of galanthamine-type mols. into crinine-type compds. and vice versa has been accomplished by a ring opening-Michael addition-cascade of a galanthamine-type secondary amine and a crinine-type quaternary ammonium salt. One crinine analog exhibited the same BChE activity as galanthamine without any AChE inhibition.
 IT **406673-85-6P**
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
 (bidirectional conversion of galanthamine and crinine type heterocycles)
 RN 406673-85-6 CAPLUS
 CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-4,4a-dihydro-9-methoxy-, (3R,4aS,5R,10bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **406673-88-9P**
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (bidirectional conversion of galanthamine and crinine type heterocycles)
 RN 406673-88-9 CAPLUS
 CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 4,4a-dihydro-9-methoxy-, (3R,4aS,5R,10bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **406673-87-8P 406673-92-5P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

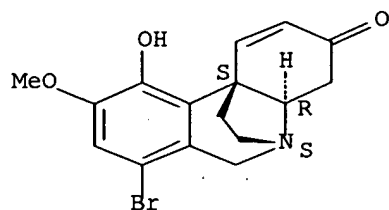
(Reactant or reagent)

(bidirectional conversion of galanthamine and crinine type
heterocycles)

RN 406673-87-8 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-
methoxy-, (4aR,5S,10bS)-rel- (9CI) (CA INDEX NAME)

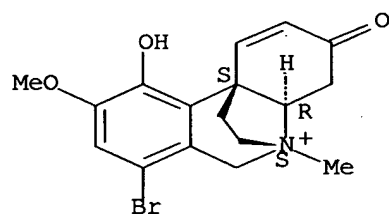
Relative stereochemistry.



RN 406673-92-5 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridinium, 7-bromo-4,4a-dihydro-10-hydroxy-9-
methoxy-5-methyl-3-oxo-, iodide, (4aR,5S,10bS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 48

THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:383937 CAPLUS Full-text
 DN 133:26864
 TI Use of galanthamine and galanthamine derivatives for the treatment of
 acute functional brain damage
 IN Mucke, Martin Alois Hermann; Frohlich, Johannes; Jordis, Ulrich
 PA Sanochemia Pharmazeutika A.-G., Austria
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000032199	A1	20000608	WO 1998-AT291	19981201
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9914300 A1 20000619 AU 1999-14300 19981201				
PRAI	WO 1998-AT291	A	19981201		

AB The invention relates to the use of galanthamine and analogs or acidic
 addition salts thereof in the production of medicaments for treating states
 arising from cerebrovascular accidents or closed focal craniocerebral traumas
 or whiplash injuries.

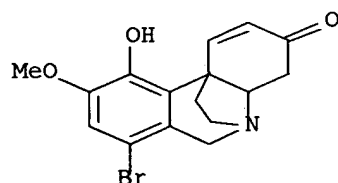
IT 198988-69-1 273749-93-2 273749-94-3
 273749-95-4

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)

(galanthamine and derivs. for treatment of acute functional brain
 damage)

RN 198988-69-1 CAPLUS

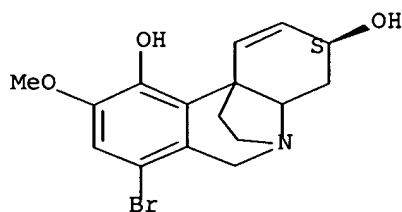
CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-
 methoxy- (9CI) (CA INDEX NAME)



RN 273749-93-2 CAPLUS

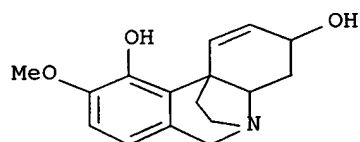
CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-4,4a-dihydro-9-methoxy-
 , (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



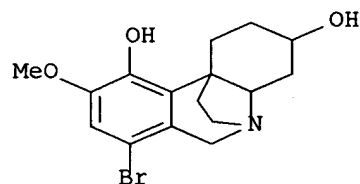
RN 273749-94-3 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 4,4a-dihydro-9-methoxy- (9CI)
(CA INDEX NAME)



RN 273749-95-4 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-1,2,4,4a-tetrahydro-9-methoxy- (9CI) (CA INDEX NAME)

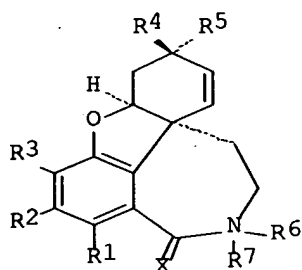


RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

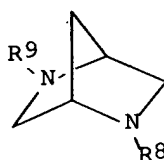
App's

L5 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1997:717921 CAPLUS Full-text
 DN 128:13368
 TI New benzazepine derivatives, medicaments containing the same and their use
 to prepare medicaments
 IN Czollner, Laszlo; Frohlich, Johannes; Jordis, Ulrich; Kuenburg, Bernhard
 PA Sanochemia Ltd., Malta
 SO PCT Int. Appl., 136 pp.
 CODEN: PIXXD2
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9740049	A1	19971030	WO 1997-AT74	19970421
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
	RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AT 9600716	A	19971015	AT 1996-716	19960419
	AT 403803	B	19980525		
	AU 9724985	A1	19971112	AU 1997-24985	19970421
	EP 897387	A1	19990224	EP 1997-916263	19970421
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, FI				
	PL 189834	B1	20050930	PL 1997-329411	19970421
	RO 120136	B1	20050930	RO 1998-1487	19970421
	PL 190032	B1	20051031	PL 1997-361697	19970421
	TW 224595	B1	20041201	TW 1997-86106195	19970509
	BG 64560	B1	20050729	BG 1998-102836	19981012
	NO 9804852	A	19981116	NO 1998-4852	19981016
	US 2003092700	A1	20030515	US 1999-242339	19990211
	US 6638925	B2	20031028		
	US 2004067974	A1	20040408	US 2003-647283	20030826
PRAI	AT 1996-716	A	19960419		
	WO 1997-AT74	W	19970421		
	US 1999-242339	A3	19990211		
OS	MARPAT 128:13368				
GI					



I



II

AB The synthesis of benzofuro[3a,3,2,ef][2]benzazepines (I) [R1,R2 = H, halo, CN, NC, OH, SH, SO3H, NH2, CF3, (un)substituted alkyl, (un)substituted alkoxy, (un)substituted aryl, (un)substituted aryloxy; R3 = OH, OMe; R4,R5 = H2, O, substituted O, (un)substituted alkyl, (un)substituted aryl, (un)substituted alkenyl, (un)substituted alkynyl, (un)substituted hydrazone, (un)substituted oxime; X = H2, O] and diazabicyclo[2.2.1]heptanes (II) [R8 = CH2Ph, 4-MeC6H4SO2, H, (un)substituted alkyl, Me3CO2C; R9 = (un)substituted Ph, CH2Ph, CHPh2, Me3CO2C] are described. Thus, I (R1 = Br, R2 = H, R3 = OMe, R4 = OH,

R5 = H, R6 = H, X = H2) (III) was prepared by tartrate resolution of (±)-N-demethyl-8-bromogalanthamine. III in in vitro study showed an IC50 of >150 in umol for the inhibition of acetylcholine esterase. Also disclosed are medicaments which contain compds. of formulas (I) and/or (II) and may be successfully used for treating Alzheimer disease and related demential states, as well as the Langdon-Down syndrome.

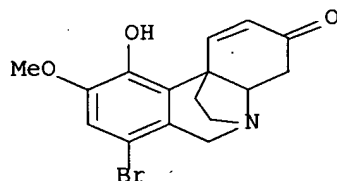
IT 198988-69-1P 198988-70-4P 198988-72-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzazepine galanthamine analogs and diazabicycloheptanes for use in treatment of dementia)

RN 198988-69-1 CAPLUS

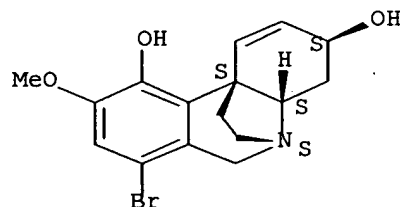
CN 3H,6H-5,10b-Ethanophenanthridin-3-one, 7-bromo-4,4a-dihydro-10-hydroxy-9-methoxy- (9CI) (CA INDEX NAME)



RN 198988-70-4 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-4,4a-dihydro-9-methoxy-, (3α,4α,5α,10bα)- (9CI) (CA INDEX NAME)

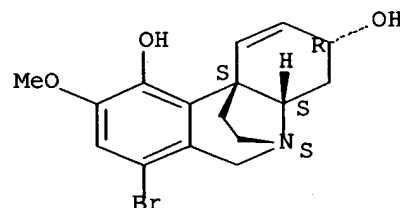
Relative stereochemistry.



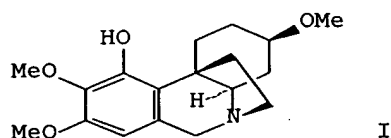
RN 198988-72-6 CAPLUS

CN 3H,6H-5,10b-Ethanophenanthridine-3,10-diol, 7-bromo-4,4a-dihydro-9-methoxy-, (3α,4αβ,5β,10bβ)- (9CI) (CA INDEX NAME)

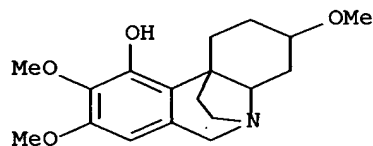
Relative stereochemistry.



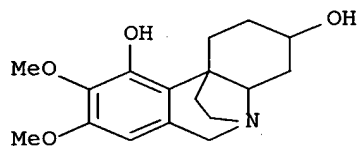
L5 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1986:618421 CAPLUS Full-text
 DN 105:218421
 TI Clastogenic effect of hippeastidine (HIPPI) (1,2,3,4,4a,6-hexahydro-10-hydroxy-3,8,9-trimethoxy-5,10b-ethanophenanthridine)
 AU Alarcon, M.; Cea, G.; Weigert, G.
 CS Fac. Biol. Sci. Nat. Resour., Univ. Concepcion, Concepcion, Chile
 SO Bulletin of Environmental Contamination and Toxicology (1986), 37(4), 508-12
 CODEN: BECTA6; ISSN: 0007-4861
 DT Journal
 LA English
 GI



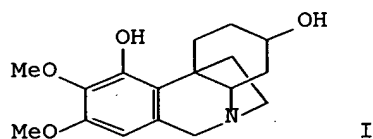
AB In a screening of chilean plants for anticancer activity, a number of alkaloids were isolated from *Hippeastrum ananuca* (Amaryllidaceae). HIPPI (I) [66276-51-5] is the 1 that has been shown to exhibit the major antineoplastic activity as tested in KB cells (a human transformed nasopharyngeal cell line) showing an ED50 = 0.270 µg/mL, the dosage required to inhibit by 50% the growth of a cell population.
 IT **66276-51-5**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antineoplastic activity of, in KB cells)
 RN 66276-51-5 CAPLUS
 CN 1H,6H-5,10b-Ethanophenanthridin-10-ol, 2,3,4,4a-tetrahydro-3,8,9-trimethoxy-, [3R-(3α,4αβ,5α,10bα)]- (9CI) (CA INDEX NAME)



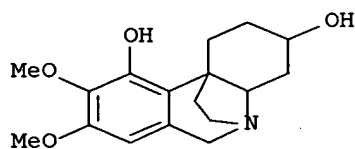
L5 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1982:527844. CAPLUS Full-text
DN 97:127844
TI Hippeastidine, C₁₇H₂₃O₄N
AU Watson, William H.; Zabel, Volker; Silva, Mario; Pacheco, Patricia
CS Dep. Chem., Texas Christian Univ., Fort Worth, TX, 76129, USA
SO Crystal Structure Communications (1982), 11(1), 157-62
CODEN: CSCMCS; ISSN: 0302-1742
DT Journal
LA English
AB The crystal structure of hippeastidine (1,2,3,4,4a,6-hexahydro-10-hydroxy-3,8,9-trimethoxy-5,10b-ethanophenanthridine) was determined the ring conformations were described.
IT **81904-08-7**
RL: PRP (Properties)
(crystal structure of)
RN 81904-08-7 CAPLUS
CN 1H,6H-5,10b-Ethanophenanthridine-3,10-diol, 2,3,4,4a-tetrahydro-8,9-dimethoxy-, [3R-(3 α ,4 α ,5 α ,10 β)]- (9CI) (CA INDEX NAME)



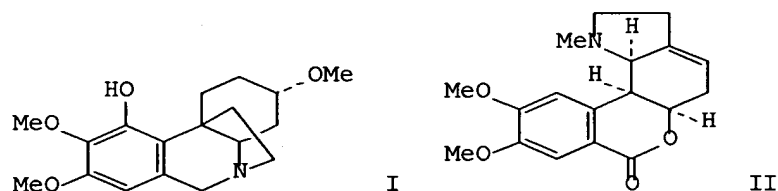
L5 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1982:214311 CAPLUS Full-text
 DN 96:214311
 TI Chemical study of Chilean Amaryllidaceae. II. New alkaloids from
 Hippeastrum ananuca Phil
 AU Pacheco, Patricia Del C.; Silva, Mario J.; Sammes, Peter G.; Watson,
 William H.
 CS Fac. Cienc. Biol. Recursos Nat., Univ. Concepcion, Concepcion, Chile
 SO Boletin de la Sociedad Chilena de Quimica (1982), 27(2), 289-90
 CODEN: BOCQAX; ISSN: 0366-1644
 DT Journal
 LA Spanish
 GI



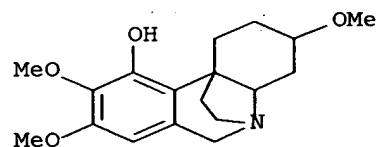
AB I, m. 175°, and hemanthamine, m. 205°, were isolated from H. ananuca bulbs,
 and identified by UV, IR, and H⁺-NMR spectroscopy.
 IT **81904-08-7**
 RL: BIOL (Biological study)
 (of Hippeastrum ananuca bulb)
 RN 81904-08-7 CAPLUS
 CN 1H,6H-5,10b-Ethanophenanthridine-3,10-diol, 2,3,4,4a-tetrahydro-8,9-
 dimethoxy-, [3R-(3 α ,4 β ,5 α ,10 β)]- (9CI) (CA INDEX
 NAME)



I5 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1978:503746 CAPLUS Full-text
 DN 89:103746
 TI Alkaloids of Chilean Amaryllidaceae. I. Hippeastidine and
 epi-homolycorine, two novel alkaloids
 AU Pacheco, P.; Silva, M.; Steglich, W.; Watson, W. H.
 CS Dep. Bot., Univ. Concepcion, Concepcion, Chile
 SO Revista Latinoamericana de Quimica (1978), 9(1), 28-32 Published in:
 Rev. Latinoamer. Quim. 8(4)
 CODEN: RLAQA8; ISSN: 0370-5943
 DT Journal
 LA English
 GI



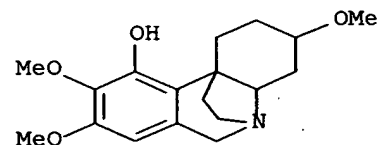
AB Lycorine, homolycorine, maritidine, hippeastidine (I), and epihomolycorine (II) were isolated from *Hippeastrum ananuca* bulbs. The total alkaloid extract was separated into 4 fractions, each of which showed antitumor activity in KB assay. The structures of I and II were assigned from spectral and x-ray diffraction data.
 IT **66276-51-5**
 RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
 (of *Hippeastrum ananuca*)
 RN 66276-51-5 CAPLUS
 CN 1H,6H-5,10b-Ethanophenanthridin-10-ol, 2,3,4,4a-tetrahydro-3,8,9-trimethoxy-, [3R-(3 α ,4 α β ,5 α ,10 β α)]- (9CI) (CA INDEX NAME)



IT **66322-24-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 66322-24-5 CAPLUS
 CN 1H,6H-5,10b-Ethanophenanthridin-10-ol, 2,3,4,4a-tetrahydro-3,8,9-trimethoxy-, [3R-(3 α ,4 α β ,5 α ,10 β α)]-, compd. with 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

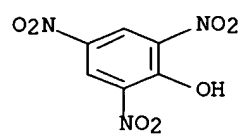
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CRN 66276-51-5
 CMF C18 H25 N O4



CM 2

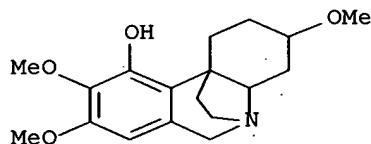
CRN 88-89-1
CMF C6 H3 N3 O7



L5 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1978:136819 CAPLUS Full-text
 DN 88:136819
 TI 1,2,3,4,4a,6-Hexahydro-10-hydroxy-3,8,9-trimethoxy-5,10b-
 ethanophenanthridinium picrate
 AU Watson, William H.; Taira, Zenei; Silva, Mario; Pacheco, Patricia
 CS Dep. Chem., Texas Christian Univ., Fort Worth, TX, USA
 SO Crystal Structure Communications (1977), 6(4), 797-801
 CODEN: CSCMCS; ISSN: 0302-1742
 DT Journal
 LA English
 AB The crystal structure of the title compound (hippeastidine picrate) was
 determined The conformation was discussed.
 IT **66322-24-5**
 RL: PRP (Properties)
 (crystal structure of)
 RN 66322-24-5 CAPLUS
 CN 1H,6H-5,10b-Ethanophenanthridin-10-ol, 2,3,4,4a-tetrahydro-3,8,9-
 trimethoxy-, [3R-(3 α ,4 α β ,5 α ,10 β α)]-, compd. with
 2,4,6-trinitrophenol (1:1) (9CI) (CA INDEX NAME)

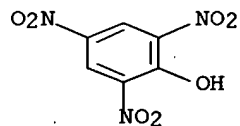
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CRN 66276-51-5
 CMF C18 H25 N O4

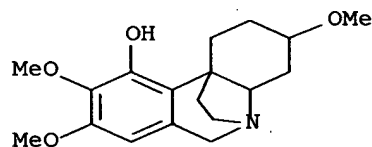


CM 2

CRN 88-89-1
 CMF C6 H3 N3 O7



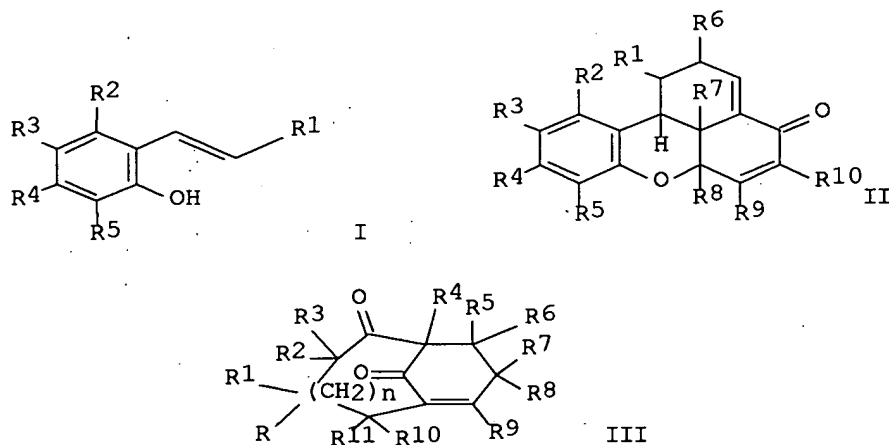
IT **66276-51-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 66276-51-5 CAPLUS
 CN 1H,6H-5,10b-Ethanophenanthridin-10-ol, 2,3,4,4a-tetrahydro-3,8,9-
 trimethoxy-, [3R-(3 α ,4 α β ,5 α ,10 β α)]- (9CI) (CA
 INDEX NAME)



L8 ANSWER 1 OF 1 MARPAT COPYRIGHT 2006 ACS on STN
 AN 132:35555 MARPAT Full-text
 TI Biomimetic combinatorial synthesis of polycyclic natural products
 IN Lindsley, Craig W.; Chen, Chuo; Shair, Matthew D.; Westwood, Nicholas J.;
 Chan, Lawrence K.; Pelish, Henry Efram; Sheehan, Scott M.; Goess, Brian
 C.; Layton, Mark E.
 PA President and Fellows of Harvard College, USA
 SO PCT Int. Appl., 138 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9964379	A2	19991216	WO 1999-US12942	19990611
	WO 9964379	A3	20000803		
	W: CA, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1998-89124P		19980611		
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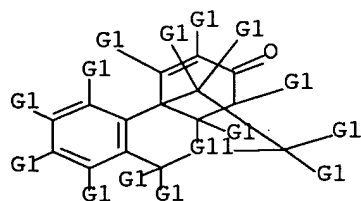
GI



AB The present invention provides biomimetic compds. and libraries thereof, as well as methods for their production. In general, the inventive method involves the selection of a desired biol. synthetic pathway and mimics that synthetic pathway utilizing modern synthetic tools. The structures formed from this method are preferably generated in fewer than four steps. These scaffold structures can then be functionalized to yield biomimetic compds. and libraries of compds. In preferred embodiments, biomimetic compds. and libraries are generated from an oxidative phenolic (I) [R1, R2, R4, R5 = (un)substituted alkyl, (un)substituted alkenyl, (un)substituted aminoalkyl, (un)substituted acylamino, (un)substituted acyloxy, (un)substituted alkoxy, (un)substituted alkylaryl, (un)substituted thioalkyl, acyl, amino, OH, SH, aryloxy, arylalkoxy, H, alkynyl, halogen, CN, CONH2, NO2, CF3, (un)substituted heterocyclyl; R3 = electron withdrawing group; R2, R3, R4, R5 taken together form a carbocycle or heterocycle having 3 to 10 atoms in the ring] coupling reaction yielding (II) [R6, R7, R9, R10 as defined for R1, R2, R4, R5; R8 = electron withdrawing group; R7, R8, R9 taken together form a carbocycle or heterocycle having 3 to 10 atoms in the ring]. In other particularly preferred embodiments, the compds. and libraries of compds. are generated from cascade reactions to yield bicyclo [n.3.1] ring systems (III) [R to R11 as defined for R1, R2, R4, R5 above; R to R11 taken together form a carbocycle or heterocycle having 3 to 10 atoms in the ring; n = 0-3], medium ring systems, and fused ring systems. In

addition to compds., libraries and methods for their production, the present invention also provides pharmaceutical compns. and methods and kits for determining one or more biol. activities of the library members.

MSTR 5



G1 = OH

G11 = N

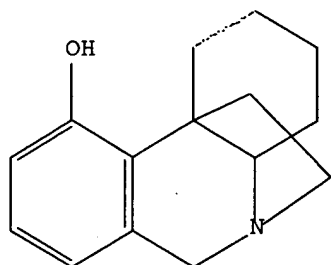
Patent location:

claim 12

Note:

ring formation also claimed

=> d l2; d his; log y
L2 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 QUE ABB=ON PLU=ON L1

(FILE 'HOME' ENTERED AT 08:06:06 ON 29 MAR 2006)

FILE 'REGISTRY' ENTERED AT 08:06:17 ON 29 MAR 2006

L1 STRUCTURE UPLOADED
L2 QUE L1
L3 3 S L2
L4 18 S L2 FUL

FILE 'CAPLUS' ENTERED AT 08:06:38 ON 29 MAR 2006

L5 10 S L4

FILE 'MARPAT' ENTERED AT 08:07:06 ON 29 MAR 2006

L6 0 S L2
L7 3 S L2 FUL
L8 1 S L7 NOT L5

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	122.17	340.88
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.71	-8.21

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